

AMENDMENTS TO THE ABSTRACT

Please delete the existing abstract and insert the following new abstract:

A magnetic mirror plasma source includes a gap separating a substrate from a cathode. A mirror magnetic field extends between the substrate and the cathode through the gap. The magnetic field lines at a proximal surface of the substrate are at least two times as strong as those field lines entering the cathode. An anode is disposed such that a closed loop electron Hall current containment region is formed within the magnetic field.